

In the Specification

[0020] FIG. 3C & €D depict another preferred embodiment of birdcage type MRI coil array of this invention;

[0025] FIGS. 5CD-E depict another preferred birdcage-type hybrid coil array resonator of this invention;

[0031A] FIG. 12A depicts performance of a circuit having the tuning and matching circuitry within the small animal device and cooled simultaneously producing improved SNR.

[0031B] FIG. 12B depicts the tuning and matching circuitry for use with the coils and arrays of this invention.